

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION GDR-98

Effective August 1, 2014

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **July 2018**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Models 5745, 5765, 7565, 515, and 525 Steel Sectional Garage Doors, Impact and Non-impact Resistant, manufactured by:

Overhead Door Corporation
3395 Addison Drive
Pensacola, Florida 32514
Telephone: (850) 474-9890

One Door Drive
P.O. Box 67
Mt. Hope, Ohio 44660
Telephone: (330) 763-8000

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation, the manufacturer's installation instructions, and the design drawings specified in this evaluation report. Installation instructions and design drawings shall be available on the job site during installation.

PRODUCT DESCRIPTION

The Models 5745, 5765, 7565, 515, and 525 are insulated sectional overhead doors constructed from galvanized steel sections with foamed in place polyurethane insulation.

The Models 5745 and 515 doors have 1 $\frac{5}{16}$ " thick panels. The doors are available in heights up to 24'-0".

The Models 5765 and 525 doors have 1 $\frac{13}{16}$ " thick panels. The doors are available in heights up to 24'-0".

The Model 7565 doors have 1 $\frac{5}{16}$ " thick panels with a decorative overlay. The doors are available in heights up to 14'-0".

The door may require a windload post or posts to achieve the design pressure rating specified in this report.

Product Identification: The door has a warranty/warning label applied during manufacturing that includes the manufacturer's name and the Series/Model number for the garage door. The door will also have a second label, applied by the installer, which includes the manufacturer's name and the design pressure rating for the door.

LIMITATIONS

This evaluation report includes both impact and non-impact resistant doors.

The non-impact resistant doors include the option for glazing.

Some of the impact resistant doors include the option for glazing.

All non-impact resistant doors include the option for louvers in the bottom section.

The maximum height of each door section shall not exceed 24".

The maximum door height shall not exceed 24'-0". Refer to the tables in this evaluation report for allowable door heights for specific doors.

The doors shall have a maximum door width of 22'-2".

The exterior door steel is constructed of 27 gauge steel. The interior door steel is constructed of 29 gauge steel.

The doors are reinforced with either 18 gauge or 20 gauge steel U-bars for horizontal reinforcement. The placement and installation of the horizontal reinforcement are shown on the design drawings.

Windload post: Doors may require the installation of a windload post in order to achieve their design pressure rating. Those doors requiring the use of the windload post are noted in this evaluation report.

Non-Impact Resistant Doors

Design drawings: Specified in Table 1

Allowable dimensions: Specified in Table 1.

Glazing (Optional): Glass is single strength, 0.090" ($\frac{3}{32}$ "), annealed monolithic in molded frames. The dimensions of the glass cutout shall not exceed 46" wide x 15" high. Specific glass dimensions are specified on the approved drawings. The glass is secured to the door sections with ten (10) No. 8 screws.

Louvers (Optional): Minimum 0.036" thick aluminum louvers in molded frames. The maximum louver cutout dimensions are 15" wide x 19" high. The dimensions of the louvers shall not exceed 12.5" wide x 18.75" high.

Design pressure and height limitations: Specified in Table 1.

Windload posts: Specified in Table 1.

Impact protection: These doors have not been tested for windborne debris resistance. Doors that contain glazing may not be installed in the Inland I zone without protection from an impact protective system. All doors that are installed in the Seaward zone will need to be protected with an impact protective system.

Table 1
Non-Impact Resistant Doors
Windload Specification Option Code, Allowable Door Dimensions,
Glazing Options, and Design Pressure Rating

Drawing Number	Maximum Door Width	Maximum Door Height	Glazing Option	Windload Posts Required	Design Pressure (psf)
411314	9'-2"	24'-0"	Yes	No	+19.10; -20.60
411315	9'-2"	24'-0"	Yes	No	+22.90; -26.30
411316	9'-2"	24'-0"	Yes	No	+26.90; -30.80
411317	9'-2"	24'-0"	Yes	No	+35.70; -41.00
411318	9'-2"	24'-0"	Yes	No	+41.00; -46.30
411319	9'-2"	24'-0"	Yes	No	+46.00; -52.00
411320	9'-2"	24'-0"	Yes	No	+64.00; -72.00
411322	16'-2"	24'-0"	Yes	No	+23.00; -25.00
411323	16'-2"	24'-0"	Yes	No	+30.00; -33.50
411324	16'-2"	24'-0"	Yes	No	+34.40; -38.30
411325	16'-2"	8'-0"	Yes	Yes ¹	+46.00; -52.00
411327	18'-2"	24'-0"	Yes	No	+23.00; -25.00
411328	18'-2"	24'-0"	No	No	+30.00; -33.50
411329	18'-2"	8'-0"	Yes	Yes ¹	+46.00; -52.00
411332	22'-2"	24'-0"	No	No	+20.15; -22.50

Note: ¹ Installation of windload posts are specified on the design drawings.

Impact Resistant Doors

Design drawings: Specified in Table 2.

Allowable dimensions: Specified in Table 2.

Glazing (optional): Impact resistant glazed window frame assemblies are shipped to the distributor as assembled units with the poly carbonate glazing installed in the overhead door window section panel under quality assurance guidelines audited by the Intertek Group, PLC. The glazing shall be minimum 1/4" polycarbonate. Each glazing lite is fastened with a minimum of ten (10) No. 8 x 1" sheet metal screws; securing the inside frame to the outside frame with two (2) screws along each vertical side, located 2 inches from each corner, and at the head and the sill with three (3) screws located 2 inches from each corner and at the mid point. The dimensions of the glazing shall not exceed 46 inch wide x 14 inches high. Specific glass dimensions are specified on the approved drawings.

Louvers: Not permitted.

Design pressure and height limitations: Specified in Table 2.

Windload posts: Specified in Table 2.

Impact protection: These doors satisfy the Texas Department of Insurance criteria for windborne debris resistance in both the **Inland I** zone and the **Seaward** zone. The door assemblies passed Missile Level D specified in ASTM E 1996-04. These doors would not need to be protected with an impact protective system if they are installed in areas where windborne debris protection is required.

Table 2
Impact Resistant Doors
Windload Specification Option Code, Allowable Door Dimensions,
Glazing Options, and Design Pressure Rating

Drawing Number	Maximum Door Width	Maximum Door Height	Glazing Option	Windload Posts Required	Design Pressure (psf)
411316	9'-2"	24'-0"	Yes	No	+26.90; -30.80
411318	9'-2"	24'-0"	Yes	No	+41.00; -46.30
411319	9'-2"	24'-0"	Yes	No	+46.00; -52.00
411320	9'-2"	24'-0"	Yes	No	+64.00; -72.00
411323	16'-2"	24'-0"	Yes	No	+30.00; -33.50
411324	16'-2"	24'-0"	Yes	No	+34.40; -38.30
411325	16'-2"	8'-0"	Yes	Yes ¹	+46.00; -52.00
411327	18'-2"	24'-0"	Yes	No	+23.00; -25.00
411328	18'-2"	24'-0"	No	No	+30.00; -33.50
411329	18'-2"	8'-0"	Yes	Yes ¹	+46.00; -52.00

Note: ¹ Installation of windload posts are specified on the design drawings.

INSTALLATION INSTRUCTIONS

Design Drawings: The doors shall be installed as specified on the design drawings. The design drawings shall be provided with the door. Each page shall be signed, sealed, and dated June 4, 2014 by Mark A. Sawicki, PE. The following information, as a minimum, shall be provided within a box on each page of the design drawing:

- Drawing Part No.
- Revision P
- Models 5745/5765/7565/515/525
- Design Pressure Rating
- Maximum Width and Maximum Height
- Maximum Section Height

Windload Post Installation Instructions: For those doors that require the installation of windload posts, the design drawings will specify the location of the posts and specific installation instructions.

Attachment of Doors to Walls (Use one of the following methods):

Attachment of Door Components to Wood-Framed Walls Using a Wood Jamb: Brackets for the vertical tracks and for the flag angles of the door shall be attached directly to wood jambs with the fasteners specified on the design drawings. The wood jambs and the attachment of the wood jambs to the wood framed walls shall be as specified in the Jamb Connection Supplement, Drawing Number 411241, Rev. P4, signed and sealed on June 26, 2014 by Mark A. Sawicki, P.E.

Attachment of Door Components to Concrete/Masonry Block Walls Using a Wood Jamb: Brackets for the vertical tracks and for the flag angles of the door shall be attached directly to wood jambs with the fasteners specified on the design drawings. The wood jambs and the attachment of the wood jambs to the concrete/masonry block walls shall be as specified in the Jamb Connection Supplement, Drawing Number 411241, Rev. P4, signed and sealed on June 26, 2014 by Mark A. Sawicki, P.E.

Attachment of Door Components to Using Direct Mount Method: Brackets for the vertical tracks and for the flag angles of the door shall be attached directly to the wall framing in accordance with the Jamb Connection Supplement, Drawing Number 411241, Rev. P4, signed and sealed on June 26, 2014 by Mark A. Sawicki, P.E.

Commercial Track Supplement (Available for all Doors): Doors may be secured to the wall framing of the structure in accordance with the Track Supplement Chart, Drawing No. 307494, Rev. P11, signed and sealed on December 17, 2013, by Mark Sawicki, P.E. Design pressure rating and maximum door width may be limited by this supplement.

Note: The manufacturer's installation instructions, the appropriate Windload Specification Option Code design drawing, the Jamb Connection Supplement, and the Track Supplement shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.